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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Tony N. Frudakis et al.  
Application No. : 10/079,137  
Filed : February 20, 2002  
For : COMPOSITIONS AND METHODS FOR THE THERAPY AND  
DIAGNOSIS OF BREAST CANCER

Examiner : Mary K. Zeman  
Art Unit : 1631  
Docket No. : 210121.419C13  
Date : September 20, 2004

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

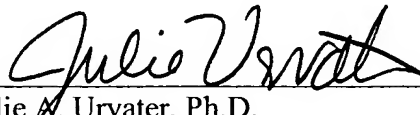
Commissioner for Patents:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicants wish to make known to the Patent and Trademark Office the references set forth on the attached form PTO-1449 (copies of the cited references, as required under 37 C.F.R. § 1.98, are enclosed). As to any reference supplied, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 C.F.R. § 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

Please acknowledge receipt of this Second Supplemental Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

A fee of \$180 is submitted in accordance with 37 CFR 1.97(c). The Director is authorized to charge any other fees which may be required, or credit any overpayment to Deposit Account No. 19-1090.

Respectfully submitted,  
Seed Intellectual Property Law Group PLLC

  
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Julie A. Urvater, Ph.D.  
Registration No. 50,461

JAU:ljt

Enclosures:

Form PTO-1449 (4 sheets)  
Cited Reference (47)

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FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

210121.419C13

APPLICATION NO.

10/079,137

SECOND SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT  
(Use several sheets if necessary)

APPLICANTS

Tony N. Frudakis et al.

FILING DATE

February 20, 2002

GROUP ART UNIT

1631

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,912,143	06/15/99	Bandman et al.	435	69.1	
	AB	6,329,505	12/11/01	Xu et al.	530	350	
	AC	6,344,550	02/05/02	Frudakis et al.	536	23.5	
	AD						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AE	EP 1033401 A2	09/06/00	EPO		
	AF	WO 99/06550	02/11/99	WIPO		
	AG	WO 99/31236	06/24/99	WIPO		
	AH	WO 01/51628	07/19/01	WIPO		
	AI					

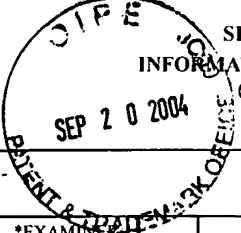
## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

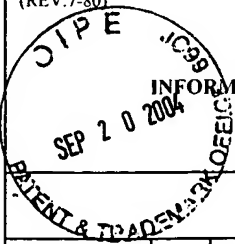
	AJ	Ahn and Kunkel, "The structural and functional diversity of dystrophin," <i>Nature Genetics</i> 3:283-291, April 1993.
	AK	Attwood, T.K., "The Babel of Bioinformatics," <i>Science</i> 290: 471-473, October 20, 2000.
	AL	Boon, T., "Toward a Genetic Analysis of Tumor Rejection Antigens," <i>Adv. Cancer Res.</i> 58:177-210,
	AM	Burgess et al., "Possible Dissociation of the Heparin-binding and Mitogenic Activities of Heparin-binding (Acidic Fibroblast) Growth Factor-1 from Its Receptor-binding Activities by Site-directed Mutagenesis of a Single Lysine Residue," <i>Journal of Cell Biology</i> 111: 2129-2138, November 1990.
	AN	Cawthon et al., "cDNA Sequence and Genomic Structure of <i>EVI2B</i> , a Gene Lying with an Intron of the Neurofibromatosis Type 1 gene," <i>Genomics</i> 9: 446-460, 1991.
	AO	Curti, B.D., "Physical barriers to drug delivery in tumors," <i>Critical Reviews in Oncology/Hematology</i> 14:29-39, 1993.
	AP	Dermer, G.B., "Another Anniversary for the War on Cancer," <i>Bio/Technology</i> 12: 320, March 1994.

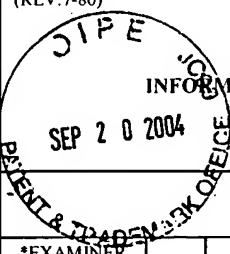
EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 210121.419C13		APPLICATION NO. 10/079,137	
 <b>SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)				APPLICANTS Tony N. Frudakis et al.			
				FILING DATE February 20, 2002		GROUP ART UNIT 1631	
<b>U.S. PATENT DOCUMENTS</b>							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
BA							
<b>FOREIGN PATENT DOCUMENTS</b>							
	DOCUMENT NUMBER	DATE	COUNTRY			TRANSLATION YES NO	
BB							
<b>OTHER PRIOR ART</b> (Including Author, Title, Date, Pertinent Pages, Etc.)							
BC		Drexler, H. "Recent Results on the Biology of Hodgkin and Reed-Sternberg cells. II. Continuous Cell Lines," <i>Leukemia and Lymphoma</i> 9: 1-25, 1993.					
BD		Embleton, M.J., "Monoclonal Antibodies to Osteogenic Sarcoma Antigens," in Monoclonal Antibodies and Cancer, <i>Immunology Series</i> 23, Wright, Jr. G.L. (ed.), Marcel Dekker, New York, NY, 1984, pp. 181-207.					
BE		Freshney, R.I., <i>Culture of Animal Cells: A Manual of Basic Technique</i> , Alan R. Liss, Inc., New York, 1983, pp.3-4.					
BF		GenBank Accession No. AA533501, August 1, 1997.					
BG		GenBank Accession No. AC018804, February 11, 2003.					
BH		GenBank Accession No. AI804733, July 6, 1999.					
BI		GenBank Accession No. AQ063365, July 30, 1998.					
BJ		GenBank Accession No. AQ124119, August 31, 1998.					
BK		Geneseq (Derwent) Accession No. AAV68996, January 22, 1999.					
BL		Genseq (Derwent) Accession No. AAL10921, December 7, 2001.					
BM		Genseq (Derwent) Accession No. AAL11383, December 7, 2001.					
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	CA						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
					YES	NO	
	CB						
<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	CC	Genseq (Derwent) Accession No. AAL11455, December 7, 2001.					
	CD	Genseq (Derwent) Accession No. AAL13620, December 7, 2001.					
	CE	Genseq (Derwent) Accession No. AAL18685, December 7, 2001.					
	CF	Genseq (Derwent) Accession No. AAL20282, December 7, 2001.					
	CG	Genseq (Derwent) Accession No. AAL20354, December 7, 2001.					
	CH	Genseq (Derwent) Accession No. AAL22489, December 7, 2001.					
	CI	Genseq (Derwent) Accession No. AAT96475, February 26, 1998.					
	CJ	Gerhold and Caskey, "It's the genes! EST access to human genome content," <i>BioEssays</i> 18(12): 973-981, 1996.					
	CK	Geysen et al., "Cognitive Features of Continuous Antigenic Determinants," <i>Journal of Molecular Recognition</i> 1(1): 32-41, 1988.					
	CL	Gillies and Wesolowski et al., "Antigen binding and biological activities of engineered mutant chimeric antibodies with human tumor specificities," <i>Hum. Antibod. Hybridomas</i> 1(1): 47-54, 1990.					
	CM	Harris et al., "Polycystic Kidney Disease 1: Identification and Analysis of the Primary Defect," <i>Journal of the American Society of Nephrology</i> 6(4): 1125-1133, October 1995.					
	CN	Hartwell et al., "Integrating Genetic Approaches into the Discovery of Anticancer Drugs," <i>Science</i> 278: 1064-1068, November 7, 1997.					
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	DA						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
					YES	NO	
	DB						
<b>OTHER PRIOR ART</b> (Including Author, Title, Date, Pertinent Pages, Etc.)							
	DC	Hsu, T.C., "Karyology of Cells in Culture," in Tissue Culture: Methods and Applications, Kurse, Jr et al. (eds.), Academic Press, New York, 1973, pp. 764-767.					
	DD	Jain, R. K., "Barriers to Drug Delivery in Solid Tumors," <i>Scientific American</i> 271(1): 58-65, July 1994.					
	DE	Johnstone and Thorpe (eds.), <i>Immunochemistry in Practice</i> , Second Edition, Blackwell Scientific Publications, Oxford England, 1987, pp 49-50.					
	DF	Lazar et al., "Transforming Growth Factor $\alpha$ : Mutation of Aspartic Acid 47 and Leucine 48 Results in Different Biological Activities," <i>Molecular and Cellular Biology</i> 8: 1247-1252, March 1988.					
	DG	Russell and Barton, "Structural Features can be Unconserved in Proteins with Similar Folds. An Analysis of Side-chain to Side-chain Contacts Secondary Structure and Accessibility," <i>J. Mol. Biol.</i> 244: 332-350, 1994.					
	DH	Tao and Morrison, "Studies of Aglycosylated Chimeric Mouse-Human IgG. Role of Carbohydrate in the Structure and Effector Functions Mediated by the Human IgG Constant Region," <i>Journal of Immunity</i> 143(8): 2595-2601, October 15, 1989.					
	DI	Venter et al., "Genome sequence analysis: scientific objectives and practical strategies," <i>Trends in Biotechnology</i> 10: 8-11, Jan/Feb 1992.					
	DJ	Walter, G., "Production of use of antibodies against synthetic peptides," <i>Journal of Immunological Methods</i> 88: 149-161, 1986.					
	DK	Wei et al., "Protection against mammary tumor growth by vaccination with full-length, modified human <i>ErbB-2</i> DNA," <i>Int. J. Cancer</i> 81: 748-754, 1999.					
	DL	Wells and Peitsch, "The chemokine information source: identification and characterization of novel chemokines using the WorldWideWeb and Expressed Sequence Tag Databases," <i>Journal of Leukocyte Biology</i> 61: 545-550, May 1997.					
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